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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,655	07/14/2003		Tetsu Kachi	240147US2	4739
22850	7590	08/24/2005		EXAM	INER
OBLON, SP 1940 DUKE S		ICCLELLAN	, TRAN, THIEN F		
ALEXANDRIA, VA 22314				ART UNIT	PAPER NUMBER
				2811	

DATE MAILED: 08/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	W.					
	Application No.	Applicant(s)				
Office Action Summers	10/617,655	KACHI ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAN INO DATE of this communication and	Thien F. Tran	2811				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on This action is FINAL. 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
 4) ☐ Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 1-4 is/are allowed. 6) ☐ Claim(s) 5-8 is/are rejected. 7) ☐ Claim(s) 9 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the Idrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	4) ☐ Interview Summary	(PTO-413)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>07/14/03</u>. 	Paper No(s)/Mail Di					

DETAILED ACTION

Claim Objections

Claim 7 is objected to because of the following informalities: line 3, "if viewed" should be --when viewed-- for clarity. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The recitation of the second electrode surrounding the first electrode is unclear and indefinite because in cross sectional view as shown in Figure 1, the second electrode 28 is formed far below the first electrode 38 and not surrounding at least the sidewalls of the first electrode 38. Only viewing from a direction perpendicular to the substrate, the second electrode 28 appears to surround the first electrode 38 as shown in Figure 2.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 5-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Song et al. (US 2002/0047128 A1).

Application/Control Number: 10/617,655

Art Unit: 2811

Song et al. disclose a nitride semiconductor light emitting diode (Figure 4b) comprising a substrate 21; a nitride semiconductor formed on the substrate; the semiconductor being thick at a central portion R1 thereof and thin at a peripheral portion R2 thereof, and having an active layer 24 being formed in the thick central portion thereof; a first electrode 27 being formed in an upper face of the thick central portion; a second electrode 28 being formed in an upper face of the thin peripheral portion.

Regarding claim 6, the second electrode 28 surrounds the first electrode 27 when viewed from a direction perpendicular to the substrate (Figure 5c).

Regarding claim 7, a center of the first electrode 27 and a center of the second electrode 28 are positioned such that one is above the other when viewed from a direction perpendicular to the substrate (Figure 5c).

Regarding claim 8, the profile of the first electrode 27 forms a smooth continuum and contains no corners (Figure 5c).

Allowable Subject Matter

Claims 1-4 are allowed.

Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: prior art references do not teach or render obvious a light emitting diode comprising a reflecting mirror separated by a distance as claimed in claim 1, claim 4 and claim 9 from a center of the active layer.

Application/Control Number: 10/617,655

Art Unit: 2811

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Reference B is being cited since it shows a reflecting contact

separated by a distance from a light-emitting region.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thien F. Tran whose telephone number is (571) 272-

1665. The examiner can normally be reached on 8:30AM - 5:00PM Monday through

Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Eddie C. Lee can be reached on (571) 272-1732. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

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August 19, 2005

THIENTRAN
PRIMARY EXAMINER

Page 4